



BB2e Dynamics Collaboration Solutions

Colorado Public Sector SharePoint Users Group

Best Practices in upgrading from SharePoint 2007 to 2010

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Agenda

- BB2e / BeInventiv
- Upgrade Planning Cycle
- Choosing an Upgrade Path
- Requirements \ Pre-requisites
- Internal External Migration Tools
- Gotha's \ Advice
- Resources

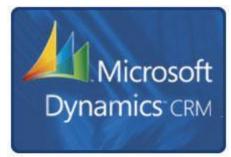




BB2e Dynamics Solutions



BB2e and
Microsoft Dynamics
SharePoint





BB2e Dynamics
Solution Benefits

Increased Service Effectiveness

Reduce Costs of Services

Consistent Growth in Services

Build Value in Services

BB2e Dynamics
Value Add

Customized Service Industry Processes

Automation and Efficiency

Reporting and Dashboards

Knowledge Mgt / KPIs

BB2e Dynamics provides Collaboration solutions which drive growth and service effectiveness



BB2e - Focus

- Portals Information Access, Research, Education
- Document management Efficiency, Sustainability
- Collaboration Collecting, Sharing, Change Mgt
- Social Media Communication, Community building
- Data Management Aggregating Disparate Data





BB2e Dynamics Collaboration Solutions

State of Colorado



State of California



State of Washington



State of Utah



State of Massachusetts



State of New Mexico



State of Texas



State of Kansas













HISTORY (O)









Who should upgrade

- Business Case Feature driven
- How much customization done in 2007
 - Content dB and Farm Config dB
- Leveraging WSPs for customized solutions
- Health of existing environment
 - Upgrade will not fix problems
- How well is the environment documented





Why Upgrade ? Business Case > Feature

- MS Access \ Excel Services
- Business Continuity Services
- Updated Central Admin
- Digital Asset Management
- Enterprise Search
- Health Monitoring
- Managed Metadata
- Performance Point Services
- Records Management
- Sandbox Services
- Social Computing
- Visio Services
- Windows PowerShell



Move, Migrate or Upgrade

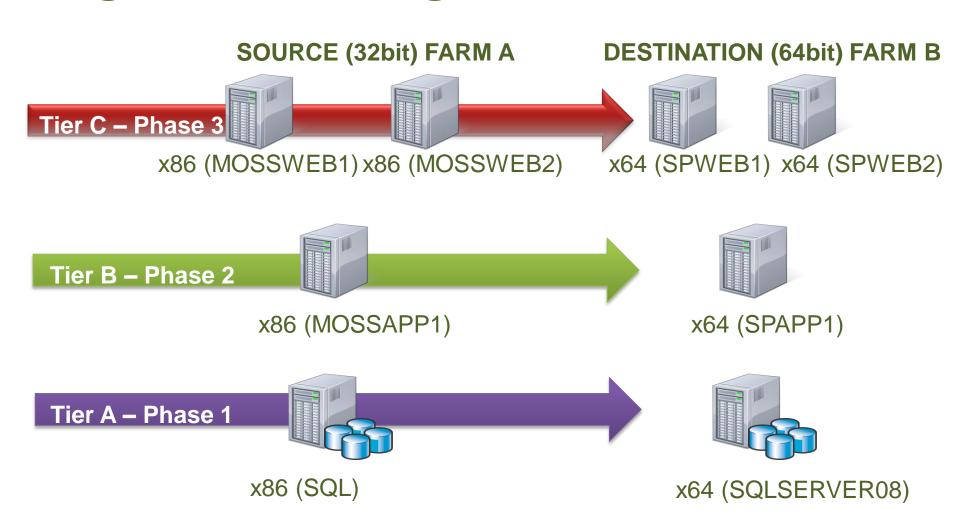
- **Move** Use the procedures for moving a farm or components when you are changing to different hardware (more capacity, performance and x64)
- Migrate From 32bit to 64bit or
 - -SharePoint Content from 2003 to 2007 > 2010
- Upgrade Apply new updates and or Service Packs to SharePoint Server 2007 or upgrade to SP2010







Migration strategies



BGOV E2.0

Preparing the servers

- SQL Server (64bit)
 - SQL 2008 R2 or SQL 2008+SP1+Latest CU
 - SQL 2005 w/SP3 supported / not recommended
- SharePoint Servers (64bit)
 - SharePoint 2007 SP2 + Latest CU
 - Recommend latest CU
 - CU updates the preupgradecheck STSADM cmd
 - Windows Server 2008 Standard w/SP2 (or greater)
 - WCF Hot fix (not part of the prerequisites installer)
- Plan for sufficient disk space Upgrades will need temp disk space (lots of)

Auditing Tools for 2007 Farms

- Central Administration in SharePoint
- SharePoint Administration Toolkit V4.0 (SPDiag) http://tinyurl.com/SPAdminKit
- Using STSADM and PowerShell
- Pre-Upgrade Check
 - Run the STSADM –o preupgradecheck command prior to upgrade (many times)
 - Run STSADM –o enumallwebs [parameters]
- Using SharePoint Manager from Carsten Keutmann
 - http://www.codeplex.com/spm

Post Audit Tasks

- Server Administrators prepare servers and plan SP2010 deployment architecture
- Developers Re-evaluate custom code solutions and files for SP2010 compatibility
- Project Managers Review upgrade project plans and estimates – user training etc.





Also Consider...

- Move only "content" to brand new farm
- Re-organise
- Standardise
- Clean up
- Decommission old hardware



Environment Cleanup - Spring cleaning

- Delete Stale Sites and Webs (Backup First ©)
 - stsadm -o DeleteSite [-force] [-gradualdelete]
 - stsadm -o DeleteWeb [-force]
- Remove Extraneous Document Versions
 - Primarily user driven, OM operations or tools help
- Cleanup Templates, Features, & Web Parts
 - Primarily user driven, OM operations or tools help
- Repair Data Issues
 - stsadm -o DatabaseRepair [-deletecorruption]
 - stsadm -o ForceDeleteList
 - stsadm -o VariationsFixupTool



Upgrade Approaches

- 4 different approaches
- Strengths and weakness of each approach
 - Choose between Level of Customization vs Farm settings
 - Deploying customizations using standard WSPs makes this choice much easier
- Side by side upgrade which was available in 2003 to 2007, not available in 2010







Upgrade Approaches - Summary

In-Place Upgrade

Database Attach Upgrade

Hybrid 1: Database attach with

Read-Only Database Upgrade

Hybrid 2:

In place with

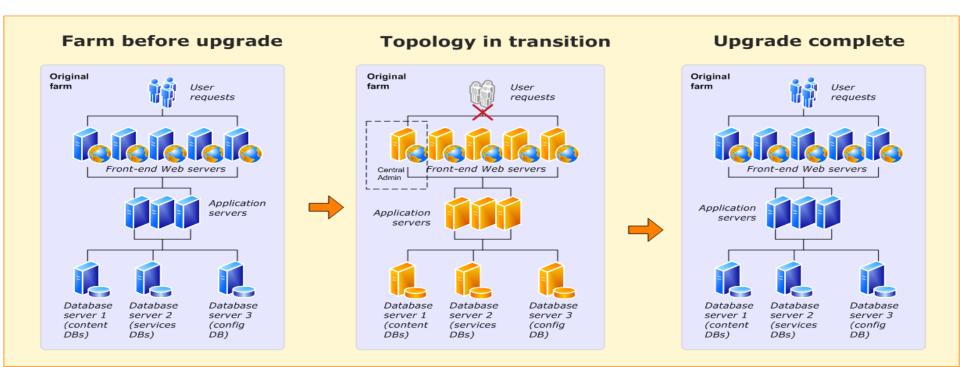
Detach Database
Upgrade





In-Place Upgrade

- Install SharePoint Binaries on the Server
- Run the Configuration Wizard
- The SSP database is upgraded and data is copied into new user profiles and taxonomy databases.



In-Place Upgrade

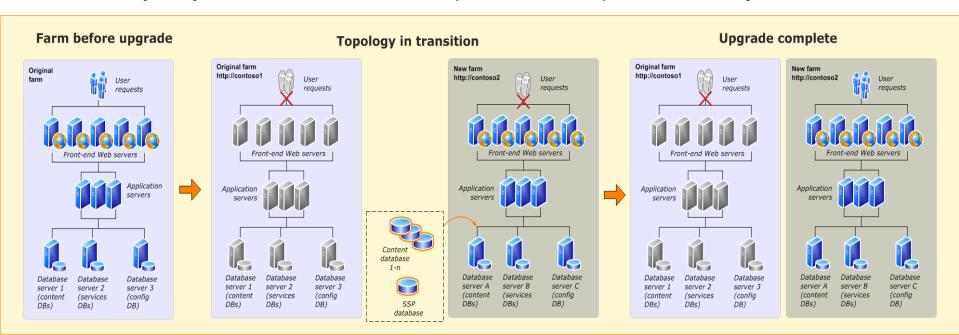
- Strengths
 - Simplest \ Least amount of re-work
 - Use existing hardware
 - Configurations and all content upgraded
 - Farm-wide settings are preserved
 - Customizations (WSPs) available after upgrade
- Weakness
 - No Rollback Only if entire farm backed up
 - Servers farm offline User requirements
 - Most stress on the system
 - Servers first need to be upgraded 32 -64 bit
- Recommended for small or non-production environments





Upgrade Sequence – Database Attach

- Build new SP2010 farm
- Create Web Application(s)
- Detach content databases from SP2007 farm
- Attach content databases to SP2010 farm
- Re-deploy customisations (WSP files) manually



BGOV 2.0

Database Attach Upgrade

Strengths

- Created in parallel Rollback to original if issues
- 2007 can be placed and accessed in read only mode
- User requests
- Customizations (subject to WSPs) moved
- Phased upgrade planned with clean-up

Weakness

- New hardware and new farm for SP 2010
- Move customizations manually

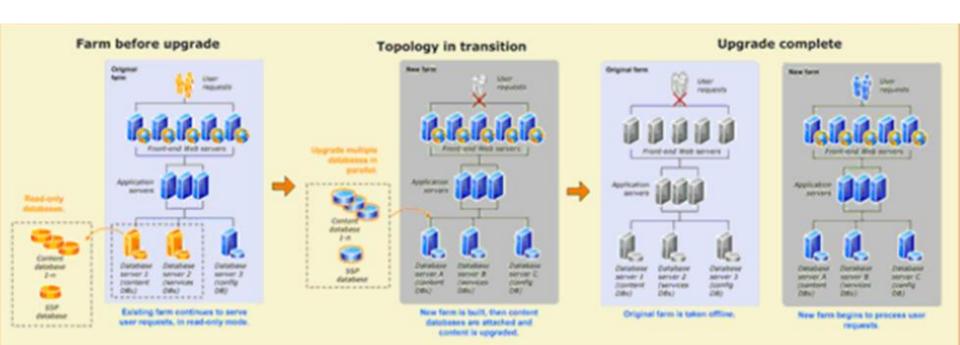
Recommended approach if farm level configurations are minimal





Hybrid 1 - Read-only database

- Existing farm is put in read only mode
- Create the new 2010 farm
- Create new dB and attached all content databases to 2010
- Take old farm off line



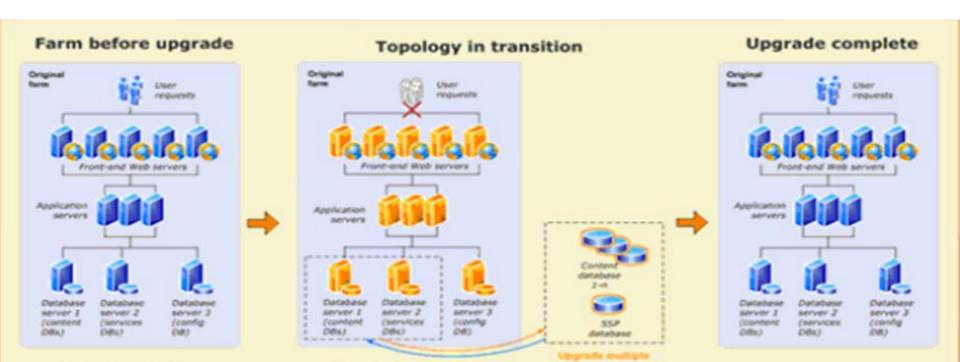
Hybrid 1 - Read-only database

- Strengths
 - Use Database Attach upgrade to preserve existing farm
 - Existing farm is put in read only mode
- Weakness
 - Server Farm setting not upgraded
- Recommended over Database Approach when it is Important to keep Farm online for User requests



Hybrid 2 - Detach database

- Use In Place upgrade for farm settings to preserve configs
- Detach content databases
- Alternatively upgrade content databases in temporary farm
- Reattach content databases one at a time in 2010





HYBRID 2 – Detach database

- Strengths
 - Preserve farm wide settings if significant
 - Less Complex due to less materials to upgrade
 - Apps \ Sites come online faster as each dB reattached
- Weakness
 - Customizations need to be manually upgraded
 - No rollback
- Not Recommended for heavy customized environments







Upgrade Approaches

In-Place Upgrade

- Easiest
- High system stress
- One Time Shot \ No Rollback
- * Small \ Non-Production

Hybrid 1: dB Attach - Read-Only

- Preserve dB custom (AMAP)
- Farm accessible \ Read only
- Manually move farm config db
- * Heavy dB \ WSP Customs

Database Attach

- Rollback\Read only\Hardware
- Upgrade content dB \customs
- Manually move farm config db
- * Heavy dB \ WSP Customs

Hybrid 2: - In Place - Detach dB

- Preserve Farm sets (AMAP)
- No Rollback
- Manually move dB
- * Heavy Farm level customs



Customizations

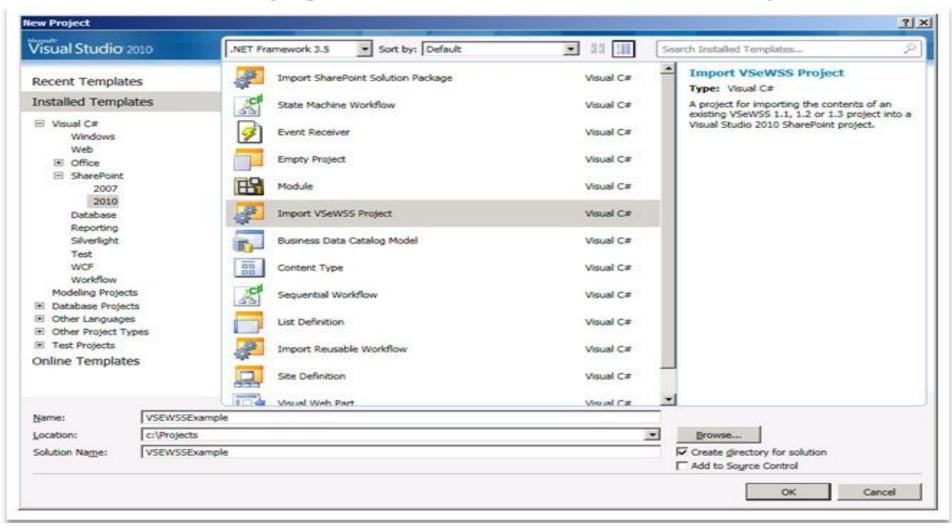
- Some assemblies will not need re-compilation
- Use SharePoint Solution Packages (WSPs)
- Site Templates (STPs) are deprecated
- SharePoint Themes are deprecated
- Changes to OOTB files will not upgrade
- Code performing large queries will not upgrade
- InfoPath admin forms must be upgraded separately
- Consider Visual Upgrade
- Check for 3rd party vendor updates







VseWSS Upgrade Tool - Developers



Upgrade – What to do for Developers

- Covert your custom code to deployable solutions
 - http://tinyurl.com/SP2010Solutions
- Visual Studio 2010 support for SharePoint 2010 development
- Follow Coding Best Practices
 - http://tinyurl.com/CodingBPSP07
- Download SP2010 SDK
 - http://tinyurl.com/SP2010DEVSDK



Upgrade – What to do for Administrators

- Large content databases and site collections will take longer to upgrade
- Split Content Databases and/or Site Collections into smaller units prior to upgrade
- STSADM's mergecontentdbs command can be used to move a Site Collection to a different Content Database
 - Convert sub site to site collection command
- Archive off any Site Collections, Webs, or Lists that are no longer necessary
- Test your Disaster Recovery strategy before upgrading

Upgrade Gotchas

- 3rd Party vendor solutions custom development
- 3rd Party products Aggregation web parts or similar
- Forgotten sites with no owners



Tips \ Tricks

- Backup \ Trial in Sandbox
- Combo Upgrade In Place to Test > Attach dB
- Use WSPs for all appropriate customizations
- Leverage Content dB customizations over Admin dB
- Split Content dB \ Site Collections into smaller units
- Standardized and Documented File names
- Use SQL aliases for backup and restore new dB
- Use Network to migrate URLs over AAM







3rd Party (ECM) Content Migration Tools

Solutions	Relative Cost	ECM Support		SharePoint Content	SharePoint Customs
AvePoint	\$\$\$\$	2	1	1	2
MetaLogix	\$\$\$	3	2	2	1
Quest	\$\$	1	3	3	4
Kapow	\$	4	4	4	3

http://cmsreport.com/content/2010/03/ten-content-migration-tools-sharepoint-platform

http://www.sharepointjoel.com/Lists/Posts/Post.aspx?ID=337

https://www.nothingbutsharepoint.com/sites/eusp/Pages/head-to-head-sharepoint-migration-tool-demo-videos.aspx





Resources

- Upgrade Resource Centre (TechNet)
 - http://tinyurl.com/SP2010Upgrade
- Upgrade planning blog post series
 - http://tinyurl.com/SP2010Blogs







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